Appendix J M-CACES

TIME 08:29:46

TITLE PAGE

GRR/SEIS Tamiami Trail 2 Bridge 2 BRIDGE ALT.

Designed By: PBS&J Estimated By: PBS&J

Prepared By: P. Ommi

REVISED: JERRELL PENNINGTON

Preparation Date: 08/10/05 Effective Date of Pricing: 08/10/05 Est Construction Time: 730 Days

> Sales Tax: 7.00%

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U.S. Army Corps of Engineers PROJECT TTA10E: GRR/SEIS Tamiami Trail 2 Bridge - 2 BRIDGE ALT. Budget Estimate for 2 Bridges & Roadway

TIME 08:29:46

TITLE PAGE

The basis of this is the pre-final cost estimate for a 4-mile bridge provided by PBS&J under contractract number xxxxx dated 22 July 2005.

Revisions to the PBS&J design to develop were made by USACE in order to develop this cost estimate as follows:

- Roadway quantities for this estimate were prorated from PBS&J pre-final submittal based on the typical sections and calculations presented in that report.
- Bridge quantities for this estimate were prorated from the PBS&J pre-final submittal based on the typical sections and calculations presented in that report.
- No Changes were made to the pricing presented by PBS&J. Pricing in the pre-final submittal is based on FDOT unit pricing. These unit prices were adjusted by PBS&J to account for local market conditions and recent increases & volatility in construction material prices such as cement, steel, asphalt, and fuel. In addition, these unit prices were independently verified by USACE to ensure accuracy by developing independent labor, equipment, and material estimates. Given the nature of this project and it's similarity to other FDOT work, the use of FDOT unit pricing is considered reasonable and prudent for this estimate.

Basis, assumptions and exclusions
All cost in the this estimate is based 2005 Dollars.

Project Narrative:

As stated on the Engineering Appendix this cost estimate is prepared for 2 Bridges. This alternative includes an elevated bridge with cross section shown in plate AX-5. The cross section of the Bridge as shown on plate AX-5 is 47'-1" from outside to outside of barrier and is 2 miles and 1 mile long .

Other main features of the project include milling of existing friction course, overbuild of the existing roadway and new 3/4" friction course for approximatelly 31,338 lf of corridor as shown on plate AX-1. It is also expected that guardrails and some roadway signs be replaced for this alternative since the profile of the road is being raised.

- (1) Quantity computations
 - $\ensuremath{\mathtt{A}}\xspace)$ Roadway items were prorated to the 4 Mile Bridge calculated based on typical section plates .
 - B) Bridge items were prorated to the calculated prepared by PBS&J structural division.
- (2) Cost Estimate for the engineering appendix is of Feasibility Phase Type. It is assumed that if the project is developed to a Engineering and Design

Currency in DOLLARS

Thu 11 Aug 2005 Eff. Date 08/10/05 PROJECT NOTES

U.S. Army Corps of Engineers PROJECT TTA10E: GRR/SEIS Tamiami Trail 2 Bridge - 2 BRIDGE ALT Budget Estimate for 2 Bridges & Roadway

TITLE PAGE

TIME 08:29:4

Phase that a more detailed estimate would be prepared reflecting the level of detail of the design.

(3) The estimate contains items not detailed in the Plates of the Engineer Appendix Report such as provisions for erosion control, and replacement of roadway signs, which are determined necessary based on construction experience. Estimates and quantities for maintenace of traffic are based on the construction phasing plates included in the Engineer Appendix Report.

Cost estimates were prepared using FDOT Unit Pricing

(4) The format of the estimate follows DOT as per the Standard Specifications for Road and Bridge Construction 2004 sequencing required by the Scope of Work.

No Bid Schedule has been prepared since it is not required for Feasibility Phase Report estimate.

(5) This estimate if "FOR OFFICIAL USE ONLY"

Thu 11 Aug 2005 Eff. Date 08/10/05

U.S. Army Corps of Engineers PROJECT TTA10E: GRR/SEIS Tamiami Trail 2 Bridge - 2 BRIDGE ALT. Budget Estimate for 2 Bridges & Roadway

udget Estimate for 2 Bridges & Roadway SUMMARY PAGE
** PROJECT OWNER SUMMARY - Scope **

QUANTITY UOM CONTRACT CONTINGN TOTAL COST UNIT COST

TIME 08:29:46

2B Roadway & 2 Bridges

2B-10	Manadana.	70 043 000	0 735 054	40 (50 050
58-10	Roadway	38,943,897	9,735,974	48,679,871
2B-20	Bridge (1 Mile)	16,403,208	4,100,802	20,504,010
2B-21	Bridge (2 mile)	32,826,893	8,206,723	41,033,616
2B-30	Drainage System (1 Mile)	1,858,501	464,625	2,323,126
2B-31	Drainage System (2 Mile)	3,717,367	929,342	4,646,708
2B-40	Utilities Relocation Coordtn	39,775	9,944	49,719
2B-50	Disposal Fees (1 Mile)	109,643	27,411	137,054
2B-51	Disposal Fees (2 Mile)	219,286	54,822	274,108
2B-60	Disposal old Road Bed (1 Mile)	1,988,634	497,159	2,485,793
2B-61	Disposal old Road Bed (2 Mile)	3,977,271	994,318	4,971,588
TOTAL	Roadway & 2 Bridges	00,084,475	25,021,119	125,105,593
TOTAL	GRR/SEIS Tamiami Trail 2 Bridge	00,084,475	25,021,119	125,105,593

Currency in DOLLARS

U.S. Army Corps of Engineers TIME 08:29:46

PROJECT TTA10E: GRR/SEIS Tamiami Trail 2 Bridge - 2 BRIDGE ALT. Budget Estimate for 2 Bridges & Roadway

** PROJECT OWNER SUMMARY - Bid Item **

QUANTITY UOM	CONTRACT	CONTINGN	TOTAL	COST	UNIT	COST

SUMMARY PAGE 2

2B Roadway & 2 Bridges 2B-10 Roadway 2B-10-101 Mobilization (Roadway & Bridge) 3,115,197 778,799 3,893,996 2B-10-102 MOT Roadway and Bridge 4.999.721 1,249,930 6,249,652 2B-10-104 Prevention, Control, Erosion 266,362 66.590 332.952 2B-10-110 Clearing and Grubbing 217,906 54,476 272.382 2B-10-120 Embankment 2,380,614 595,153 2,975,767 2B-10-160 Stabilizing 39,165 9,791 48.956 2B-10-200 Limerock Base 480,483 120,121 600,604 2B-10-300 Prime and Tack Coats for Base 188,832 47.208 236,041 2B-10-327 Milling Existing Asphalt Pavt 416.595 104,149 520,744 2B-10-331 Asphaltic Concrete 13,693,157 3,423,289 17,116,446 2B-10-337 Asphaltic Concrete Friction Cour 840,104 210,026 1,050,130 2B-10-430 Existing Culvert Extensions 309,888 77,472 387.360 2B-10-521 Retaining Wall 6,482,228 1,620,557 8,102,785 2B-10-536 Guardrail 2,934,879 733.720 3.668.598 2B-10-540 Temp. Sheet Pile 1.569.067 392,267 1,961,334 2B-10-575 Seeding and Sodding 631,861 157.965 789.826 2B-10-700 Highway Signing 35.086 8,771 43.857 2B-10-706 Reflective Pavement Markers 58,305 14,576 72.882 2B-10-711 Thermoplastic Traffic Stripes 284,448 71,112 355,560 ------TOTAL Roadway 38,943,897 9,735,974 48,679,871 2B-20 Bridge (1 Mile) 2B-20-350 Substructure 2,631,409 657,852 3,289,261 2B-20-360 Superstructure 13,616,622 3,404,155 17,020,777 2B-20-370 Bridge approaches 155,177 38,794 193,972 ------TOTAL Bridge (1 Mile) 16,403,208 4,100,802 20,504,010 2B-21 Bridge (2 mile) 2B-21-350 Substructure 5,438,466 1,359,616 6,798,082 2B-21-360 Superstructure 27,233,250 6,808,312 34,041,562 2B-21-370 Bridge approaches 155,177 38,794 193,972 TOTAL Bridge (2 mile) 32,826,893 8,206,723 41,033,616 2B-30 Drainage System (1 Mile) 2B-30- 01 Piping and Fittings 1,660,067 415,017 2,075,084 2B-30- 02 Drainage Structures 198,433 49,608 248,042

TIME 08:29:46 U.S. Army Corps of Engineers

SUMMARY PAGE

PROJECT TTA10E: GRR/SEIS Tamiami Trail 2 Bridge - 2 BRIDGE ALT.

Budget Estimate for 2 Bridges & Roadway ** PROJECT OWNER SUMMARY - Bid Item **

	QUANTITY UOM			TOTAL COST UNIT
TOTAL Drainage System (1 Mile)				2,323,126
2B-31 Drainage System (2 Mile)				
2B-31- 01 Piping and Fittings		3,320,482	830,120	4,150,602
2B-31- 02 Drainage Structures		396,885	99,221	496,107
TOTAL Drainage System (2 Mile)				4,646,708
2B-40 Utilities Relocation Coordin				
2B-40- 01 Utilities Relocation Coordin		39,775		49,719
TOTAL Utilities Relocation Coordtn		39,775		49,719
2B-50 Disposal Fees (1 Mile)				
2B-50- 10 Disposal Fees				137,054
TOTAL Disposal Fees (1 Mile)				137,054
2B-51 Disposal Fees (2 Mile)				
2B-51- 10 Disposal Fees				274,108
TOTAL Disposal Fees (2 Mile)		219,286		274,108
2B-60 Disposal old Road Bed (1 Mile)				
2B-60-110 Clearing and Grubbing		70,317	17,579	
2B-60-120 Excavation and Disposal				2,397,896
TOTAL Disposal old Road Bed (1 Mile)				2,485,793
2B-61 Disposal old Road Bed (2 Mile)				
2B-61-110 Clearing and Grubbing		140,637		
2B-61-120 Excavation and Disposal		3,836,634		4,795,792
TOTAL Disposal old Road Bed (2 Mile)			994,318	4,971,588
				125,105,593
TOTAL Roadway & 2 Bridges				

Currency in DOLLARS

Thu 11 Aug 2005 Bff. Date 08/10/05 ERROR REPORT

U.S. Army Corps of Engineers PROJECT TTA10E: GRR/SBIS Tamiami Trail 2 Bridge - 2 BRIDGE ALT. Budget Estimate for 2 Bridges & Roadway

TIME 08:29:46

ERROR PAGE 1

R2029: GRR/SEIS Tamiami Trail 2 No Crew Database selected - No Crew Summaries or Reprice

* * * END OF ERROR REPORT * *

Thu 11 Aug 2005 Eff. Date 08/10/05 TABLE OF CONTENTS

U.S. Army Corps of Engineers PROJECT TTA10E: GRR/SEIS Tamiami Trail 2 Bridge - 2 BRIDGE ALT. Budget Estimate for 2 Bridges & Roadway

CONTENTS PAGE

TIME 08:29:46

SUMMARY REPORTS SUMMARY PAGE

PROJECT OWNER SUMMARY Scope.... 1
PROJECT OWNER SUMMARY Bid Item. 2

No Detailed Estimate.

No Backup Reports.

END TABLE OF CONTENTS